GARY A. COEN
Attorney Docket No. BOEI-1-1038
DATABASE ANALYSIS TOOL
Filed: December 27, 2001
Sheet 1 of 11
Black Lowe & Graham, PLLC
(206) 381-3300

30

20

DATA
DICTIONARY
EXTRACTOR   36

PROCESSOR   22

LEXICAL
GRAPH   38
GENERATOR

DISPLAY   28

USER
INTERFACE   26

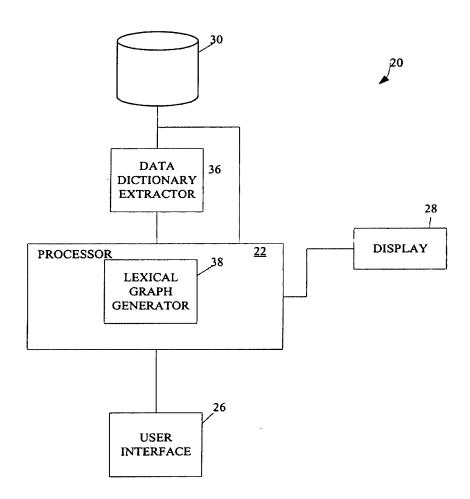# FIG. 1.

GARY A. COEN
Attorney Docket No. BOEI-1-1038
DATABASE ANALYSIS TOOL
Filed: December 27, 2001
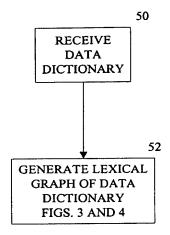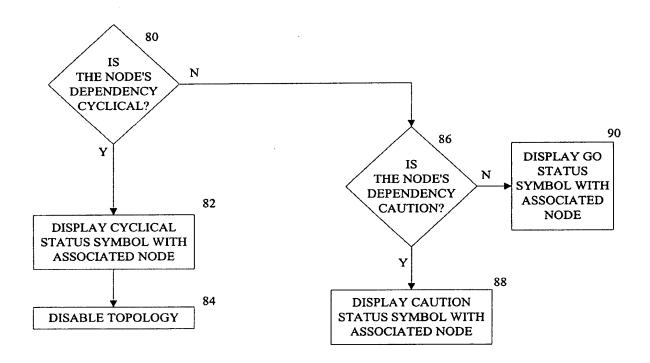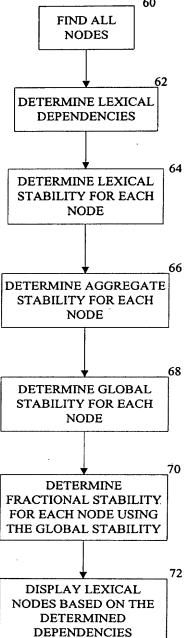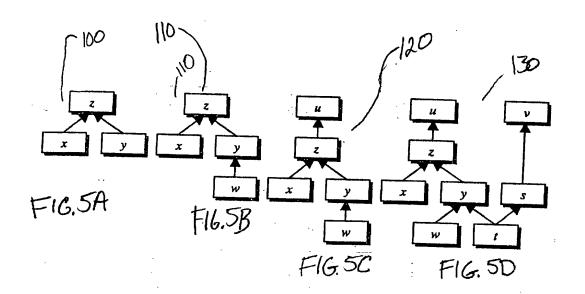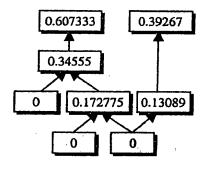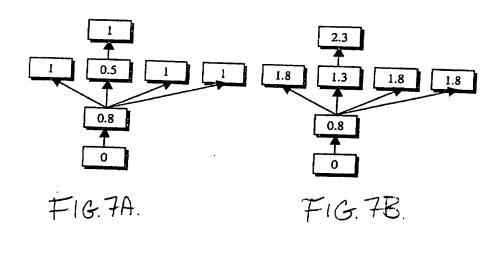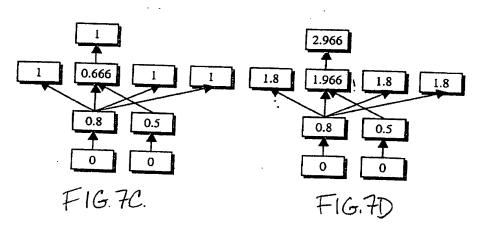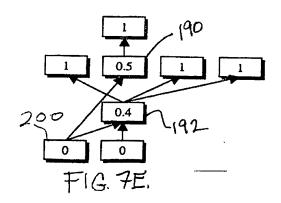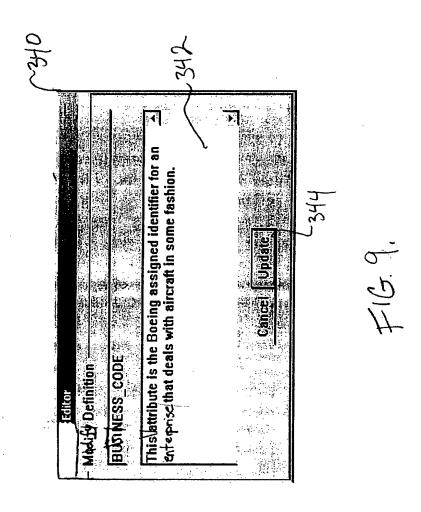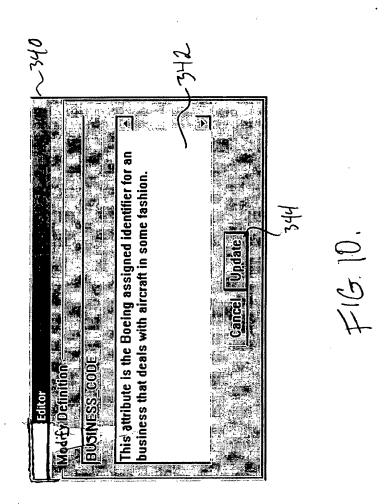Sheet 2 of 11
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50

```
┌─────────────────┐
│     RECEIVE     │
│      DATA       │
│   DICTIONARY    │
└─────────────────┘
         │
         ▼
```

52

```
┌──────────────────────┐
│  GENERATE LEXICAL    │
│   GRAPH OF DATA      │
│    DICTIONARY        │
│   FIGS. 3 AND 4      │
└──────────────────────┘
```

FIG. 2.

80

```
        IS
    THE NODE'S        N
    DEPENDENCY    ──────────────────────┐
    CYCLICAL?                           │
        │                               ▼
        │ Y                            86
        ▼                               IS
```

82

```
┌──────────────────────┐        THE NODE'S        N      90
│  DISPLAY CYCLICAL    │        DEPENDENCY    ──────────►┌──────────────────┐
│ STATUS SYMBOL WITH   │        CAUTION?                 │  DISPLAY GO      │
│  ASSOCIATED NODE     │            │                    │   STATUS         │
└──────────────────────┘            │ Y                  │ SYMBOL WITH      │
         │                          ▼                    │ ASSOCIATED       │
         ▼                         88                    │   NODE           │
```

84

```
┌──────────────────────┐        ┌──────────────────────┐
│  DISABLE TOPOLOGY    │        │  DISPLAY CAUTION     │
└──────────────────────┘        │ STATUS SYMBOL WITH   │
                                │  ASSOCIATED NODE     │
                                └──────────────────────┘
```

FIG. 4.

60

FIND ALL
NODES

62

DETERMINE LEXICAL
DEPENDENCIES

64

DETERMINE LEXICAL
STABILITY FOR EACH
NODE

66

DETERMINE AGGREGATE
STABILITY FOR EACH
NODE

68

DETERMINE GLOBAL
STABILITY FOR EACH
NODE

70

DETERMINE
FRACTIONAL STABILITY
FOR EACH NODE USING
THE GLOBAL STABILITY

72

DISPLAY LEXICAL
NODES BASED ON THE
DETERMINED
DEPENDENCIES

FIG. 3.

GARY A. COEN
Attorney Docket No. BOEI-1-1038
DATABASE ANALYSIS TOOL
Filed: December 27, 2001
Sheet 4 of 11
Black Lowe & Graham, PLLC
(206) 381-3300

100

110

110

120

130

z

x   y

FIG.5A

z

x   y

w

FIG.5B

u

z

x   y

w

FIG.5C

u

z

x   y

w   t

v

s

FIG.5D

0.607333

0.39267

0.34555

0   0.172775   0.13089

0   0

FIG.6.

GARY A. COEN
Attorney Docket No. BOEI-1-1038
DATABASE ANALYSIS TOOL
Filed: December 27, 2001
Sheet 5 of 11
Black Lowe & Graham, PLLC
(206) 381-3300

FIG. 7A.

FIG. 7B.

FIG. 7C.

FIG. 7D

FIG. 7E.

FIG. 8.

GARY A. COEN
Attorney Docket No. BOEI-1-1038
DATABASE ANALYSIS TOOL
Filed: December 27, 2001
Sheet 7 of 11
Black Lowe & Graham, PLLC
(206) 381-3300

Editor

Modify Definition

BUSINESS_CODE

This attribute is the Boeing assigned identifier for an enterprise that deals with aircraft in some fashion.

Cancel   Update

340

342

344

FIG. 9.

Editor

Modify Definition

BUSINESS CODE

This attribute is the Boeing assigned identifier for an business that deals with aircraft in some fashion.

Cancel   Update

~340

~342

~344

FIG. 10.

GARY A. COEN
Attorney Docket No. BOEI-1-1038
DATABASE ANALYSIS TOOL
Filed: December 27, 2001
Sheet 9 of 11
Black Lowe & Graham, PLLC
(206) 381-3300

FIG. 11.

GARY A. COEN
Attorney Docket No. BOEI-1-1038
DATABASE ANALYSIS TOOL
Filed: December 27, 2001
Sheet 10 of 11
Black Lowe & Graham, PLLC
(206) 381-3300

370

~372

FIG.12

Term Count 516   Status:

GARY A. COEN
Attorney Docket No. BOEI-1-1038
DATABASE ANALYSIS TOOL
Filed: December 27, 2001
Sheet 11 of 11
Black Lowe & Graham, PLLC
(206) 381-3300

FIG. 13.